

FEE TRANSMITTAL

For FY 2005

MAR 29 2005

Complete If Known

Application No.	10/050,533
Filing Date	January 18, 2002
First Named Inventor	Michael J. Graziano et al.
Examiner Name	Cgat C. Do
Art Unit	2124
Attorney Docket No.	56162.000352

MAIL STOP FEE AMENDMENT☐ Applicant claims small entity status. See 37 CFR 1.27Total Amount Of Payment (\$)**180.00****METHOD OF PAYMENT** (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (identify): _____☒ Deposit Account Deposit Account Number **50-0206** Deposit Account Name : **Hunton & Williams LLP**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below.☐ Charge fee(s) indicated below, **except for the filing fee**☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☐ Credit any overpayments.**FEE CALCULATION****1. BASIC FILING, SEARCH AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee(\$)	Small Entity Fee (\$)	Fee(\$)	Small Entity Fee (\$)	Fee(\$)	Small Entity Fee (\$)	
Utility	300.00	150.00	500.00	250.00	200.00	100.00	
Design	200.00	100.00	100.00	50.00	130.00	65.00	
Plant	200.00	100.00	300.00	150.00	160.00	80.00	
Reissue	300.00	150.00	500.00	250.00	600.00	300.00	
Provisional	200.00	100.00	0.00	0.00	0.00	0.00	

2. EXCESS CLAIMS FEES

For	Number Present	Highest Number Paid For	Extra	Fees (\$)	Small Entity Fee (\$)	Fees Paid (\$)
Total Claims		20	0 x	50.00	25.00	0.00
Independent Claims		3	0 x	200.00	100.00	0.00
Multiple Dependent Claim				360.00	180.00	0.00
Total Excess Claims Fees						0.00

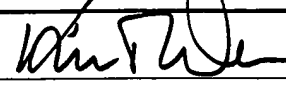
3. APPLICATION SIZE FEE (if the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

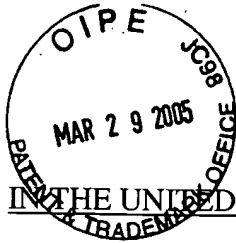
Total Sheets	Extra Sheets	No. of Each Additional 50 or Fraction Thereof	Fees (\$)	Small Entity Fee (\$)	Fees Paid (\$)
- 100 =	0 / 50 =	0 (round up to a whole number) x	250.00	125.00	0.00

4. OTHER FEE(S)

- | | |
|--|---|
| <input type="checkbox"/> Non-English Specification (no small entity discount) | <input type="checkbox"/> Utility Issue Fee (or Reissue) (including Publication Fee, if necessary) |
| <input type="checkbox"/> Surcharge - late filing fee or oath | <input type="checkbox"/> Design Issue Fee |
| <input type="checkbox"/> Surcharge - late provisional filing fee or cover sheet | <input type="checkbox"/> Plant Issue Fee |
| <input type="checkbox"/> 2 Month Extension of Time | <input type="checkbox"/> Petition to Commissioner |
| <input checked="" type="checkbox"/> Submission of Information Disclosure Statement 180.00 | <input type="checkbox"/> Petition to Revive (Unavoidable) |
| <input type="checkbox"/> Notice of Appeal | <input type="checkbox"/> Petition to Revive (Unintentional) |
| <input type="checkbox"/> Request for Oral Hearing | <input type="checkbox"/> Petitions Related to Provisional Applications |
| <input type="checkbox"/> Filing Brief in Support of Appeal | <input type="checkbox"/> Recording Each Patent Assignment Per Property |
| <input type="checkbox"/> Filing Submission After Final Rejection | <input type="checkbox"/> Other (specify) _____ |

SUBMITTED BY

Signature		Registration No.	41,495	Telephone	703-734-7448
Typed or Printed Name	Kevin T. Duncan	Date	March 29, 2005		



PATENT
ATTORNEY DOCKET: 56162.000352

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 10/050,533 Confirmation No.: 7745
Applicant : Michael J. GRAZIANO, et al.
Filed : January 18, 2002
Title : METHOD AND SYSTEM FOR ESTIMATING A BASE-2
LOGARITHM OF A NUMBER
TC/Art Unit : 2124
Examiner: : Chat C. Do

Docket No. : 56162.000352
Customer No. : **21967**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SECOND INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants submit attached Form PTO-SB/08A (modified) for consideration and request the references cited therein be made of record by the U.S. Patent and Trademark Office in the above-captioned application.

The attached documents were cited by the European Patent Office in the International Search Report (ISR) dated March 26, 2003, in PCT Application PCT/US02/24401 corresponding to U.S. Application Serial No. 10/050,529 and claiming priority to the present application among others. A copy of the ISR is enclosed.

Applicants respectfully point out that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made by Applicants.

For the convenience of the Examiner in considering the cited references, a copy of each of the non-patent literature references is enclosed with this communication. In considering the cited references, it may be noted by the Examiner that certain of the references may contain

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markings, underlinings, and/or other notations. These markings, underlinings, and/or other notations are not to be construed as drawing the Examiner's attention either to selected parts or away from other parts of the cited references. Any such markings were either present on the copies of the cited references obtained by the associated individuals, or were made thereon during the study of the references by the associated individuals.


Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

This Information Disclosure Statement is being submitted after the mailing of a non-final Office Action, but is believed to be prior to a final Office Action or a Notice of Allowance. Pursuant to 37 C.F.R. § 1.97(c)(2), a check in the amount of \$180.00 as set forth in § 1.17(p) is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any difference to the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: March 29, 2005

By: 
Kevin T. Duncan
Registration No. 41,495

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/050,533
Filing Date	January 18, 2002
First Named Inventor	Michael J. GRAZIANO, et al.
Art Unit	2124
Examiner Name	Chat C. Do
Attorney Docket Number	56162.000352

Sheet 1 of 1

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,061,427 A	05-09-2000	Ryoo	

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO
		WO	01 43415 A	06-14-2000	Sarsoza et al.		<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
		Sistanizadeh, K. et al. ; "Multi-tone transmission for asymmetric digital subscriber lines (ADSL)" <i>Proceedings of the International Conference on Communications (ICC)</i> , Geneva; vol. 3, May 26, 1993, pages 756-760 (XP010137079).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Friese, M. et al. ; "Power back-off strategies for very high bit rate digital subscriber line transmission systems" <i>IEEE Global Telecommunications Conference, Globecom 99</i> , Rio De Janeiro, Brazil; vol. 2, December 5-9, 1999, pages 1150-1154 (XP001016895)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Jacobsen, K. S. ; "Text proposal for upstream power back-off" <i>ETSI TM6 Meeting (TD15)</i> , Amsterdam, The Netherlands, November 29, 1999 to December 3, 1999 pages 1-6. (XP002224208)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Leke, A. et al. ; "Channel loading effects on power limited wireless transmitters utilizing discrete multi-tone modulation" <i>Microwave Symposium Digest, IEEE MTT-S International</i> , Denver, CO USA, June 8-13, 1997; pages 1147-1150 (XP010228246)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.